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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

RAYTHEON COMPANY states that it is the Assignee of the entire right, title and interest in the following patents and/or patent applications identified below by virtue of assignments from their respective inventor(s) and hereby revokes all previous powers and appoints the practitioners associated with customer number:

18227

with full power to prosecute these patents and/or patent applications including all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, and to transact all business in the Patent Office connected therewith. The assignments have been recorded in the United States Patent and Trademark Office at the Reel and Frame numbers indicated below or for which a copy thereof is attached.

LINE #	CANTOR COLBURN REFERENCE NO	Filing Date	Application No.	Reel/Frame	Assignee
1	RAY0017US	17 Jul 2003	10/621772	014970/0717	Inventor to Raytheon Company
2	RAY0018US	12 Apr 2004	10/822606	015205/0551	Inventors to Raytheon Company
3	RAY0019US	18 Mar 2005	11/083380	016515/0971	Inventors to Raytheon Company
4	RAY0020US	18 Mar 2005	11/083379	016516/0179	Inventors to Raytheon Company
5	RAY0021US	18 Mar 2005	11/084496	016515/0978	Inventors to Raytheon Company
6	RAY0022US	12 Jul 2004	10/890568	015585/0130	Inventors to Raytheon Company
7	RAY0023US	05 Mar 2009	12/398235	022348/0182	Inventors to Raytheon Company
8	RAY0024US	15 Apr 2004	10/825345	015230/0979	Inventors to Raytheon Company
9	RAY0025US	15 Apr 2004	10/824874	015224/0545	Inventors to Raytheon Company
10	RAY0026US	15 Apr 2004	10/825539	015229/0417	Inventors to Raytheon Company

11	RAY0027US	15 Apr 2004	10/826959	017722/0781	Inventors to Raytheon Company
12	RAY0028US	15 Apr 2004	10/824873		Inventors to Raytheon Company 0152380/0480 Shannon V. Davidson to Raytheon Company 016010/0960
13	RAY0029US	15 Apr 2004	10/825021		Inventors to Raytheon Company 015225/0436 Shannon V. Davidson and Anthony N. Richoux to Raytheon Company 016414/0620
14	RAY0030USC	07 Oct 2008	12/246783	021661/0394	Anthony N. Richoux to Raytheon Company
15	RAY0030US	17 Nov 2004	10/991598	016013/0184	Anthony N. Richoux to Raytheon Company
16	RAY0031US	17 Nov 2004	10/991994	016014/0746	Inventor to Raytheon Company
17	RAY0032US	17 Nov 2004	10/991754	016009/0084	Inventor to Raytheon Company
18	RAY0033USD	28 Oct 2010	12/914457	025212/0821	Inventor to Raytheon Company
19	RAY0033US	27 Aug 2007	11/845510	019750/0198	Inventor to Raytheon Company
20	RAY0034US	08 Dec 2005	11/297999	017356/0647	Inventors to Raytheon Company
21	RAY0185USD	04 Feb 2008	12/012572	021942/0075	Inventors to Raytheon Company
22	RAY0035US	30 Oct 2006	11/554512	018455/0791	Inventor to Raytheon Company
23	RAY0036US	29 Dec 2006	11/618196	018694/0696	Inventor to Raytheon Company
24	RAY0177US	13 Nov 2006	11/559369	018825/0412	Inventors to Raytheon Company
25	RAY0037USP	15 Apr 2011	13/087829	026136/0486	Inventors to Raytheon Company
26	RAY0037US	22 Nov 2006	11/562750	018547/0721	Inventors to Raytheon Company
27	RAY0038US	12 Jan 2007	11/622921	018759/0055	Inventors to Raytheon Company
28	RAY0039US	20 Feb 2007	11/676874	019016/0152	Inventors to Raytheon Company
29	RAY0040US	31 Oct 2006	11/555090	018461/0100	Inventors to Raytheon Company
30	RAY0041US	13 Apr 2007	11/786906	019545/0439	Inventor to Raytheon Company
31		13 Oct 2006	11/549179	018386/0917	Inventors to Raytheon Company
	RAY0042US2				
32		28 Nov 2007	11/946559	020170/0911	Inventors to Raytheon Company
	RAY0043US2				
33	RAY0131USC	5 Mar 2009	12/398277	022348/0795	Inventor to Raytheon Company
34	RAY0044US	30 Oct 2007	11/929285	020039/0446	Inventor to Raytheon Company
35	RAY0045US2	03 Jan 2008	11/969109	020695/0282	Inventor to Raytheon Company

36	RAY0107US	27 May 2009	12/473044		Inventors to Raytheon Company 023463/0505 Inventors to Raytheon Company 023544/0196
37	RAY0113US	30 Jan 2009	12/363417	022183/0740	Inventors to Raytheon Company
38	RAY0114US	27 Dec 2007	11/965503	020295/0535	Inventors to Raytheon Company
39	RAY0115US	10 Apr 2008	12/100909	021128/0737	Inventors to Raytheon Company
40	RAY0106US2	29 Feb 2008	12/040406	020585/0348	Inventors to Raytheon Company
41	RAY0180US	22 Jan 2008	12/018021	020669/0298	Inventors to Raytheon Company
42	RAY0116US	18 Nov 2008	12/272878	021848/0033	Inventors to Raytheon Company
43	RAY0105US2	29 Jul 2009	12/511667	023023/0303	Inventors to Raytheon Company
44	RAY0117US	12 Dec 2008	12/333703	021972/0018	Inventors to Raytheon Company
45	RAY0118US	30 Jan 2009	12/362581	022179/0888	Inventors to Raytheon Company
46	RAY0104US2	28 Oct 2010	12/914493	025213/0106	Inventor to Raytheon Company
47	RAY0119US	14 Apr 2009	12/422653	022538/0967	Inventors to Raytheon Company
48	RAY0120US	18 Mar 2009	12/406690	022594/0642	Inventors to Raytheon Company
49	RAY0178US	24 Oct 2008	12/258209		Inventors to Raytheon Company 022091/0715 Inventors to Raytheon Company 024187/0339
50	RAY0169USC	28 Feb 2011	13/036179	025870/0619	Inventors to Raytheon Company
51	RAY0169US	24 Oct 2008	12/257824	021795/0737	Inventors to Raytheon Company
52	RAY0121US	01 Jul 2010	12/828969	024627/0185	Inventors to Raytheon Company
53	RAY0103US2	22 May 2009	12/471077	022728/0142	Inventor to Raytheon Company
54	RAY0110US	11 Dec 2009	12/636148	023642/0678	Inventors to Raytheon Company
55	RAY0122US	14 Jan 2010	12/687516	023787/0451	Inventors to Raytheon Company
56	RAY0111US	13 Jul 2009	12/501905	022947/0394	Inventors to Raytheon Company
57	RAY0102US	13 Jul 2009	12/501766	022946/0661	Inventors to Raytheon Company
58	RAY0101US	13 Jul 2009	12/501969	022947/0750	Inventors to Raytheon Company
59	RAY0100US	13 Jul 2009	12/501785	022946/0783	Inventors to Raytheon Company
60	RAY0125US	08 May 2009	12/463127	022672/0092	Inventors to Raytheon Company
61	RAY0126US	08 May 2009	12/437915		Inventors to Raytheon Company 022658/0339 Inventors to Raytheon Company 023123/0373
62	RAY0099US	08 May 2009	12/437975	022780/0753	Inventors to Raytheon Company
63	RAY0127US	10 Feb 2010	12/703428		Inventor to Raytheon Company 023920/0967 Inventor to Raytheon Company 024067/0485
64	RAY0128US	24 Feb 2010	12/711391	023982/0150	Inventors to Raytheon Company
65	RAY0098US2	08 Apr 2010	12/756514	024206/0236	Inventors to Raytheon Company
66	RAY0097US	07 Jan 2010	12/683924	023749/0067	Inventor to Raytheon Company
67	RAY0096US	13 Jan 2010	12/686467	023771/0757	Inventor to Raytheon Company

68	RAY0095US	13 Jan 2010	12/686428	023771/0419	Inventor to Raytheon Company
69	RAY0094US	13 Jan 2010	12/686862	023777/0219	Inventor to Raytheon Company
70	RAY0129US	28 Jan 2010	12/695566	023865/0749	Inventor to Raytheon Company
71	RAY0093US	26 Mar 2010	12/732382	024144/0214	Inventors to Raytheon Company
72	RAY0092US2	05 May 2011	13/101402	026521/0405	Inventor to Raytheon Company
73	RAY0091US	04 Dec 2003	10729143	014780/0270	Inventor to Raytheon Company
74	RAY0090USC	14 Mar 2006	11/375530	018602/0285	Inventor to Raytheon Company
75	RAY0090US	30 Dec 2003	10/748566	014865/0836	Inventor to Raytheon Company
76	RAY0084USC	10 Aug 2006	11/501826		Inventors to UTD, Inc. 027491/0845 UTD, Inc. to Raytheon UTD, Inc. 027493/0577 Raytheon UTD Inc. to Raytheon Company 027515/0784
77	RAY0084US2	17 Aug 2004	10/919271		Inventors to UTD, Inc. 015739/0431 UTD, Inc. to Raytheon UTD, Inc. 018711/0727 Raytheon UTD Inc. to Raytheon Company 027515/0784
78	RAY0083US2	14 Dec 2005	11/302384		Inventors to Raytheon UTD, Incorporated 017724/0377 Raytheon UTD Inc. to Raytheon Company 027515/0784
79	RAY0130US	12 Aug 2008	12/190452		Inventor to Raytheon UTD Inc. 021742/0011 Raytheon UTD Inc. to Raytheon Company 027515/0784
80	RAY0082US2	18 Dec 2006	11/640337		Inventor to Raytheon UTD Inc. 019205/0906 Raytheon UTD Inc. to Raytheon Company 027515/0784
81	RAY0082USP	26 Mar 2008	12/078069		Inventor to Raytheon UTD Inc. 020771/0879 Raytheon UTD Inc. to Raytheon Company 027515/0784
82	RAY0089USD	18 Oct 2010	12/906443		Inventor to Raytheon UTD Inc. 027491/0512 Raytheon UTD Inc. to Raytheon Company 027515/0784
83	RAY0089US	18 Dec 2007	12/000879		Inventor to Raytheon UTD Inc. 020315/0464 Raytheon UTD Inc. to Raytheon Company 027515/0784
84	RAY0152US	30 Jun 2010	12/827918	024715/0237	Inventor to Raytheon Company
85	RAY0088US	23 Mar 2010	12/729822	024124/0967	Inventors to Raytheon Company
86	RAY0087US	29 Mar 2010	12/748514	024150/0244	Inventors to Raytheon Company

87	RAY0086US	01 Apr 2010	12/752703		Inventors to Raytheon Company 024176/0432 Inventors to Raytheon Company 024882/0169
88	RAY0085US	29 Mar 2010	12/748693	024750/0246	Inventors to Raytheon Company
89	RAY0081US	15 May 2002	10/147093	012918/0968	Inventors to Raytheon Company
90	RAY0080US	18 Apr 2005	11/108921	016832/0016	Inventors to Raytheon Company
91	RAY0079US	17 Oct 2003	10/688708	014626/0481	Inventors to Raytheon Company
92	RAY0078US	15 Dec 2003	10/736913	014809/0280	Inventors to Raytheon Company
93	RAY0077US	16 Apr 2003	10/417021	013979/0555	Inventor to Raytheon Company
94	RAY0076US	03 Dec 2004	11/003637	016067/0232	Inventor to Raytheon Company
95	RAY0075US	12 Oct 2005	11/248366	017096/0618	Inventors to Raytheon Company
96	RAY0074US	25 Sep 2002	10255415	013339/0263	Inventors to Raytheon Company
97	RAY0073US	14 Sep 2001	09/952835	012172/0976	Inventors to Raytheon Company
98	RAY0072US	16 Jul 2003	10/620884	014305/0237	Inventors to Raytheon Company
99	RAY0071US	16 Jul 2003	10/620888		Inventor to Raytheon Company 014305/0244 Inventor to Raytheon Company 014305/0078
100	RAY0070US	16 Feb 2005	11/059264	016284/0816	Inventors to Raytheon Company
101	RAY0069USP	25 Apr 2008	12/149096	023769/0642	Inventors to Raytheon Company
102	RAY0069US	05 Jun 2006	11/446202	017962/0843	Inventors to Raytheon Company
103	RAY0068USD	21 Jul 2011	13/136096	027491/0392	Inventor to Raytheon Company
104	RAY0068US	30 Nov 2007	11/998670	020998/0695	Inventor to Raytheon Company
105	RAY0067US	15 Jun 2007	11/818645	019490/0533	Inventor to Raytheon Company
106	RAY0066US	03 Oct 2007	11/906729		Inventors to Raytheon Company 019970/0186 Inventors to Raytheon Company 023702/0286
107	RAY0065US	08 Oct 2009	12/587502	023665/0943	Inventors to Raytheon Company
108	RAY0064US	23 Apr 2010	12/799399		Inventors to Raytheon Company 024349/0268 Inventors to Raytheon Company 024469/0405
109	RAY0063US	26 Jan 2010	12/657673	023890/0204	Inventors to Raytheon Company
110	RAY0061US	18 Feb 2010	12/658979	024162/0126	Inventors to Raytheon Company
111	RAY0062US	26 Feb 2010	12/660421	024054/0146	Inventors to Raytheon Company
112	RAY0060US	14 Feb 2006	11/353541	017885/0093	Inventors to Raytheon Company
113	RAY0059US	14 Oct 2009	12/579202	023372/0416	Inventors to Raytheon Company
114	RAY0058US2	27 Oct 2009	12/606462	023429/0715	Inventors to Raytheon Company
115	RAY0055US2	27 Feb 2009	12/394250	022322/0195	Inventors to Raytheon Company
116	RAY0054US	30 Oct 2007	11/980150		Inventors to Raytheon Company 020293/0205 Inventors to Raytheon Company 021037/0408

117	RAY0052US	10 Jun 2004	10/866224	015465/0601	Inventors to Raytheon Company 015465/0601
118	RAY0186US	14 Jul 2006	11/486605	018108/0340	INVENTORS TO RAYTHEON COMPANY
119	RAY0050US	16 May 2007	11/803741	019368/0593	INVENTORS TO RAYTHEON COMPANY
120	RAY0049US	26 Feb 2009	12/393746	022318/0411	INVENTOR TO RAYTHEON COMPANY
121	RAY0048US	15 Sep 2009	12/559971	023233/0343	INVENTORS TO RAYTHEON COMPANY
122	RAY0047US2	22 Aug 2007	11/843266	019731/0654	INVENTOR TO RAYTHEON COMPANY


The undersigned hereby grants said practitioners the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office.

Assignee hereby further directs that all correspondence and telephone calls in connection with these patents and/or patent applications be addressed to the said

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Cantor Colburn LLP
20 Church Street, 22nd Floor
Hartford, CT 06103
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and that all patents and/or patent applications be associated with Customer No. 18227

The undersigned is authorized to act on behalf of the Assignee, RAYTHEON COMPANY

SIGNATURE OF Applicant or Assignee of Record			
Name & Title	Sean F. Sullivan Partner, Cantor Colburn LLP		
Signature			
Date	01/20/2012	Telephone	860-286-2929 ext. 1142

PTO/BB/80 (11-08)

Approved for use through 11/30/2011. OMB 0651-0038

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I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

18227

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

I hereby authorize the undersigned attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



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<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
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Assignee Name and Address:

Raytheon Company
870 Winter Street
Waltham, MA 02451-1449

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/BB/80 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	January 11, 2012
Name	Robert P. Hayler	Telephone	781.522.3050
Title	Chief Patent Counsel, Raytheon Company		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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